

Manufacturer's Authorization Form

To
Chief General Manager
India Security Press,
Nashik Road :- 422101

Dear Sirs,

Ref. Your Tender document No....., dated

We,, who are proven and reputable manufacturers of *(name and description of the goods offered in the tender)* having factories at....., hereby authorise Messrs..... *(name and address of the agent)* to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs. *(name and address of the above agent)* is authorized to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred tender enquiry documents for the above goods manufactured by us.

We also hereby extend our full warranty, as applicable as per clause 16 of the General Conditions of Contract read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this tender document.

Yours faithfully,

.....
.....

[Signature with date, name, and designation]

for and on behalf of Messrs.....

[Name & address of the manufacturers]

Note: This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Supply, Installation, Testing, Commissioning, integration & configuration of CO₂ Laser Source 350W.

Laser Beam Specifications:

Laser beam data: SCX35- 350Watts.

Wavelength: 10.6μm

Excitation: RF source

Output Power

Power range(typical rated):20W-350W

Typical power stability:±5%

Typical power stability with power feedback:±1%

Guaranteed power stability :±7%

Peak power: >880W

Minimum shipment power:420W

Typical shipment power:465W

Laser beam quality

Diameter @ $(1/e^2)$: 7.0±0.5mm

Beam quality factor $M^2 < 1.2$ ($K > 0.8$)

Divergence(full angle): < 2mrad (1 to 10m)

Pointing stability (half angle): <0.25 mrad

Polarisation: linear (45° base)

Ellipticity: < 1.2:1

Pulse mode

Frequency: 0KHz-130 KHz

Width:2μs-400 μs

Energy: 14mJ-280mJ

Optical pulse rise/ fall(7): <60μs

Duty cycle maximum: 60%

External control facility:

Laser Head: Commands from the external controller ,

Status signal to external controller,

NC control (0-10 V)

PWM control

PWM Controller:

Suitable PWM Controller should be provided and integrated with offered Laser Head

Terms and conditions:

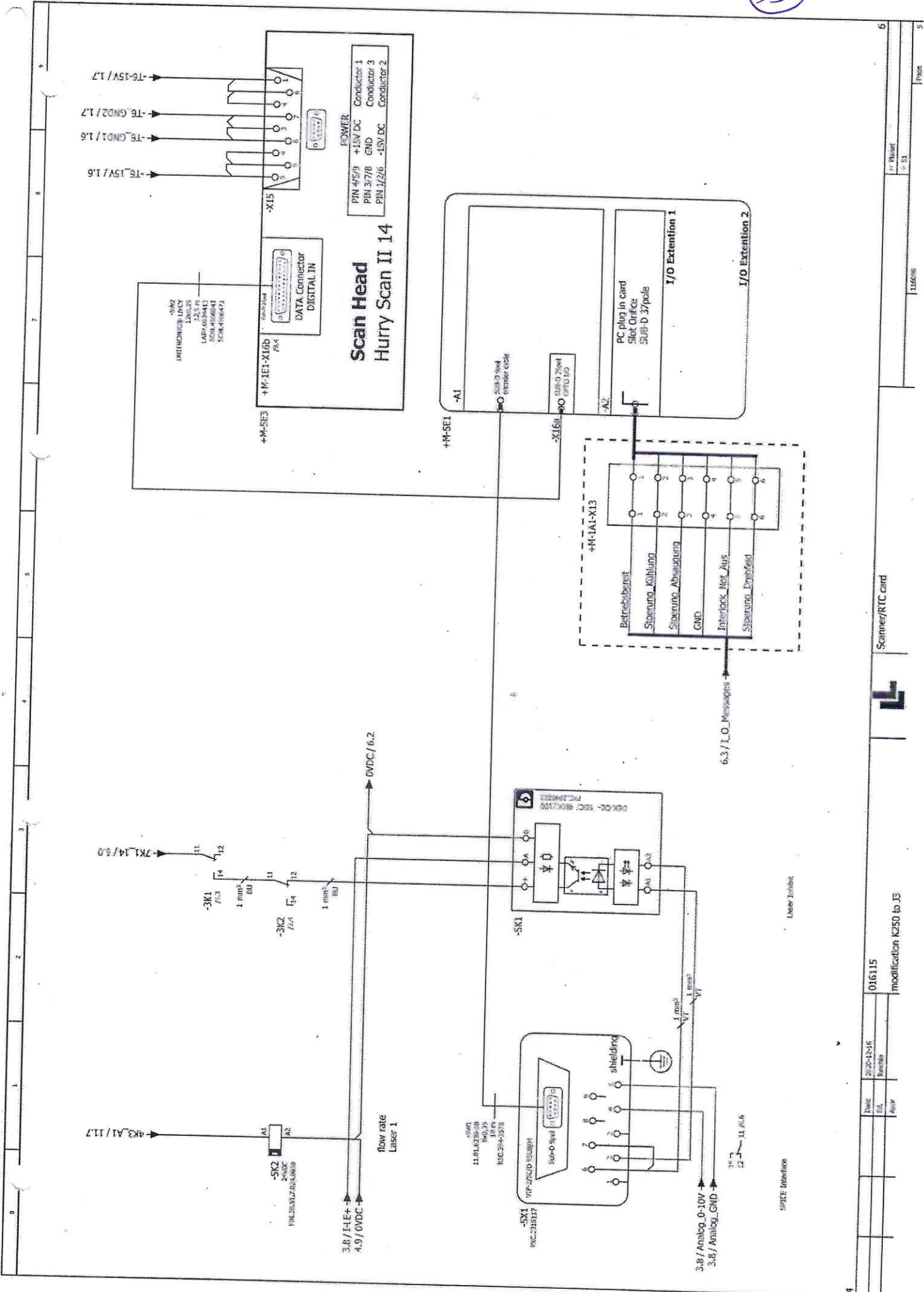
1. The offer submitted by the firm must be complete in all respects on turnkey basis comprising of laser source 350W with DC PSU PS35 assembly water cooled PMB (combination of power supply and RF power amplifier and RF cable kit)and PWM.
2. Vendors must visit ISP with prior intimation to study thoroughly the existing system and quote accordingly.
3. Mechanical adaptation (HARDWARE) is to be done by the firm at their own cost.
4. Firm has to integrate Laser source along with essential RF Amplifier,PWM & PSU with existing software and LASER system. Only supply of offered item is not acceptable.
5. The firm has to submit undertaking on the firms letter head for "certificate of authenticity" of Laser Head, RF Amplifier & PSU from Original Equipment Manufacturer while quoting .The firm has to submit certificate of authenticity of Laser Head, RF Amplifier & PSU at the time of supply.ISP may verify these certificate of authenticity from the OEM.
6. Warranty period : 1 year from the date of successful FAT.
7. The firm will have to take all safety precautions while carrying out of installation of the offered system on the existing machine of ISP.

INSTALLATION, TESTING COMMISSIONING & TRIALS:

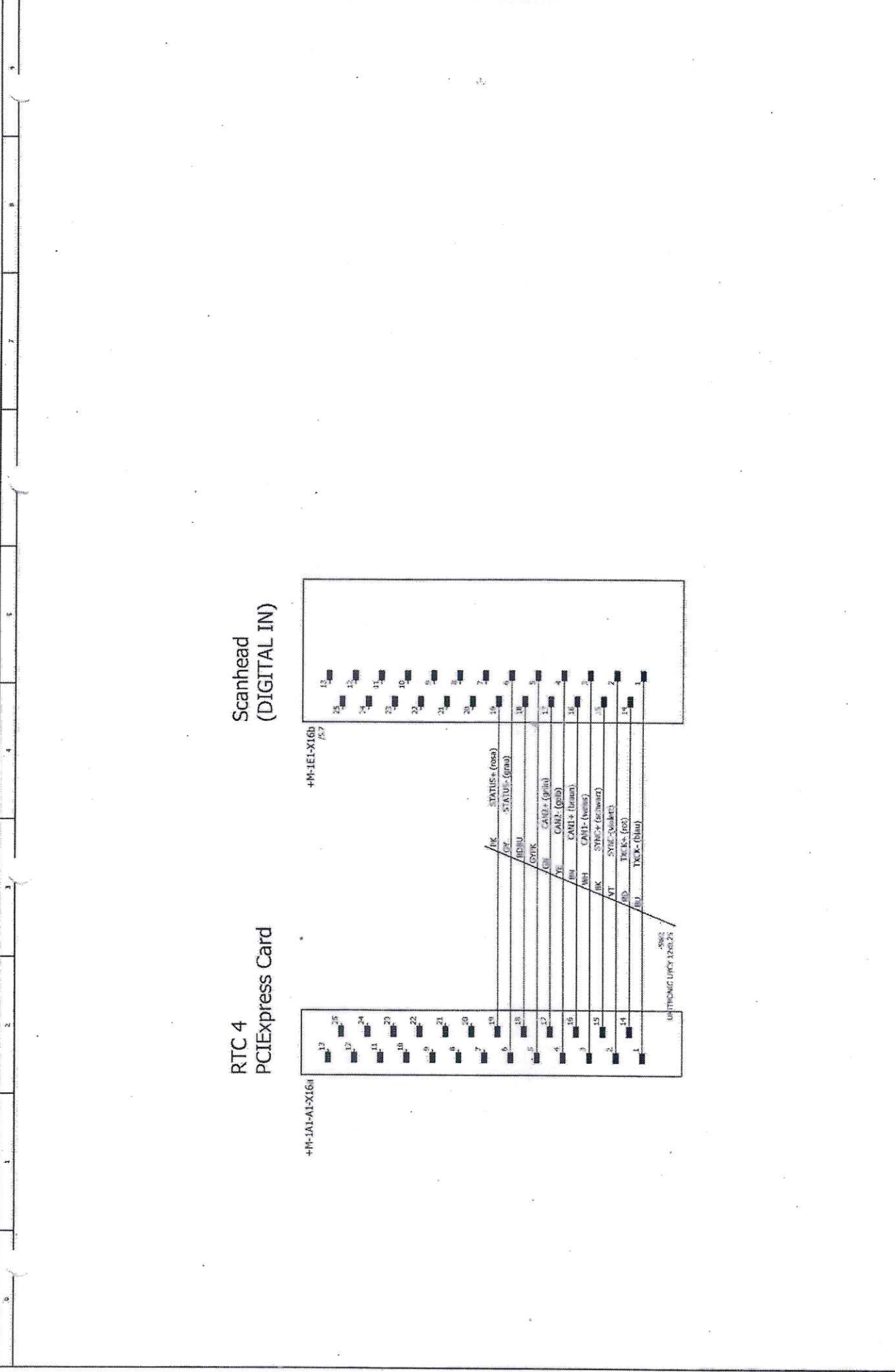
- 1 The firm shall depute their Engineers / Technicians to India Security Press, Nashik for installation, commissioning, testing, and trials of the System for the required period of time at their own cost.

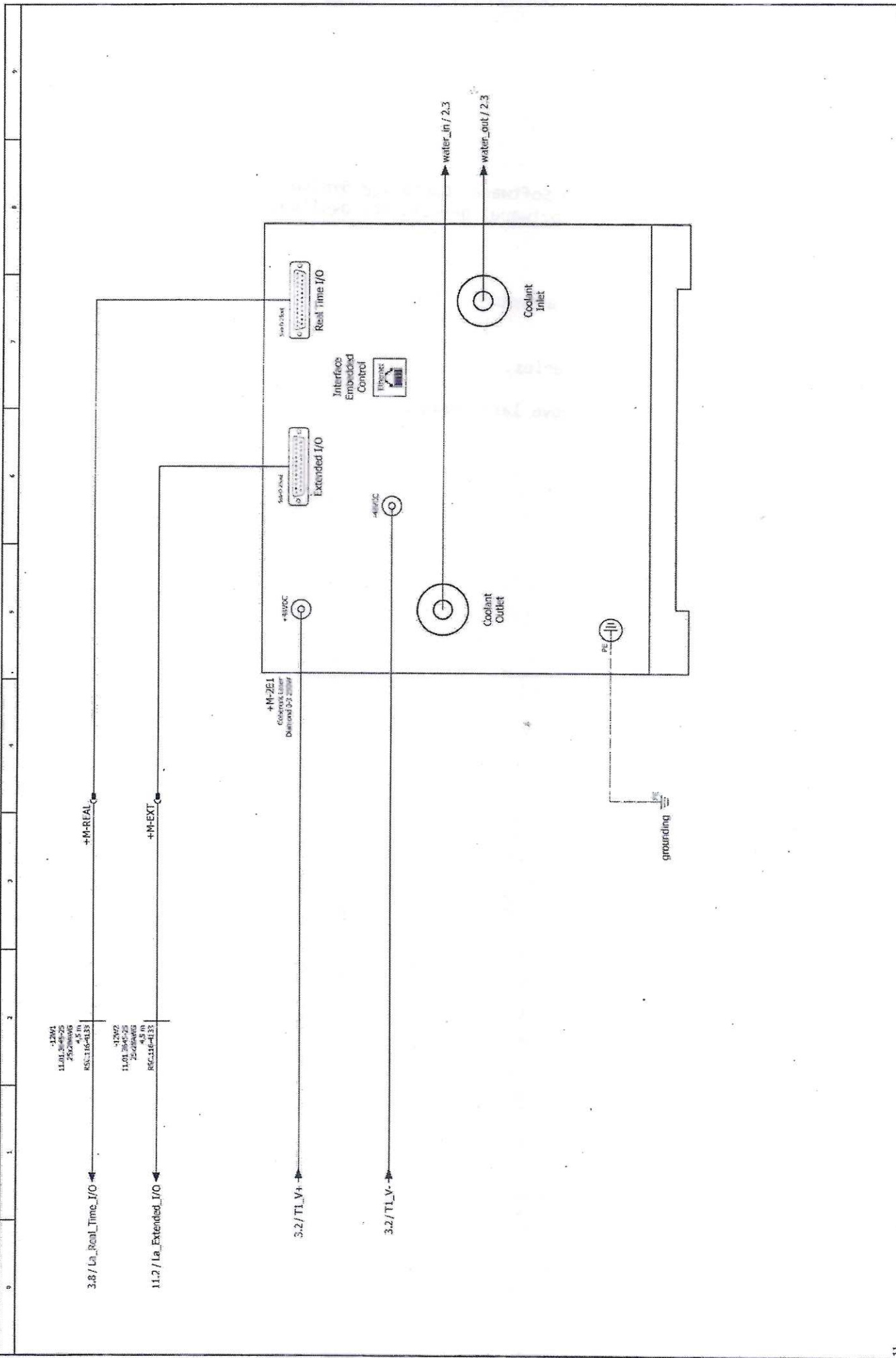
2 The FAT (Final Acceptance Test) for a period of six (6) working days consisting of 8 hours per day, conforming to the system configurations, including existing machine speed, output etc. as per the tender specifications. Upon satisfactory completion of FAT, the suitability report will be issued.

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(3)





3.8 / Ia_Real_Time_I/O
 11.2 / Ia_Extended_I/O

3.2 / T1_V+
 3.2 / T1_V-